Alabama Department of Environmental Management

MAJOR SOURCE OPERATING PERMIT

Permitee: **Cheney Lime & Cement**

Facility Name: **Landmark Plant**

Facility No.: 411-0019

Location: Alabaster, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code §§22-22A-1 to 22-22A-15 (2006 Rplc. Vol. and 2007 Cum. Supp.), and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: TBD

Expiration Date: TBD

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1. Transfer	
This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.	ADEM Admin Code r. 335-3-16-.02(6)
2. Renewals	
An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.	ADEM Admin Code r. 335-3-16-.12(2)
The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.	
3. Severability Clause	
The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.	ADEM Admin Code r. 335-3-16-.05(e)
4. Compliance	
(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.	ADEM Admin Code r. 335-3-16-.05(f)
(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.	ADEM Admin Code r. 335-3-16-.05(g)

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5. Termination for Cause This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.	ADEM Admin Code r. 335-3-16-.05(h)
6. Property Rights The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	ADEM Admin Code r. 335-3-16-.05(i)
7. Submission of Information The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.	ADEM Admin Code r. 335-3-16-.05(j)
8. Economic Incentives, Marketable Permits, and Emissions Trading No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	ADEM Admin Code r. 335-3-16-.05(k)
9. Certification of Truth, Accuracy, and Completeness: Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.	ADEM Admin Code r. 335-3-16-.07(a)
10. Inspection and Entry Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:	ADEM Admin Code r. 335-3-16-.07(b)

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(a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;	
(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;	
(c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;	
(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.	
11. Compliance Provisions	
(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.	ADEM Admin Code r. 335-3-16-.07(c)
(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.	
12. Compliance Certification	
A compliance certification shall be submitted no later than DATE TBD of each year.	ADEM Admin Code r. 335-3-16-.07(e)
(a) The compliance certification shall include the following:	
(1) The identification of each term or condition of this permit that is the basis of the certification;	
(2) The compliance status;	
(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);	
(4) Whether compliance has been continuous or intermittent;	

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(5) Such other facts as the Department may require to determine the compliance status of the source; (b) The compliance certification shall be submitted to: Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463 and to: Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303	
13. <u>Reopening for Cause</u> Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit: (a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire. (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit. (c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. (d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.	ADEM Admin Code r. 335-3-16-.13(5)

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14. <u>Additional Rules and Regulations</u>	
This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.	§22-28-16(d), Code of Alabama 1975, as amended
15. <u>Equipment Maintenance or Breakdown</u>	
(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:	ADEM Admin Code r. 335-3-1-.07(1), (2)
(1) Identification of the specific facility to be taken out of service as well as its location and permit number;	
(2) The expected length of time that the air pollution control equipment will be out of service;	
(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;	
(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;	
(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.	
(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.	

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16. Operation of Capture and Control Devices	
All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.	§22-28-16(d), Code of Alabama 1975, as amended
17. Obnoxious Odors	
This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.	ADEM Admin Code r. 335-3-1-.08
18. Fugitive Dust	
(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.	ADEM Admin Code r. 335-3-4-.02
(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:	
(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;	
(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;	
(3) By paving;	
(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;	

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Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.	
19. Additions and Revisions	
Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.	ADEM Admin Code r. 335-3-16-.13 and .14
20. Recordkeeping Requirements	
(a) Records of required monitoring information of the source shall include the following:	ADEM Admin Code r. 335-3-16-.05(c)2.
(1) The date, place, and time of all sampling or measurements;	
(2) The date analyses were performed;	
(3) The company or entity that performed the analyses;	
(4) The analytical techniques or methods used;	
(5) The results of all analyses; and	
(6) The operating conditions that existed at the time of sampling or measurement.	
(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit	
21. Reporting Requirements	
(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).	ADEM Admin Code r. 335-3-16-.05(c)3.

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(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.	
22. <u>Emission Testing Requirements</u>	
Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.	ADEM Admin Code r. 335-3-1-.05(3) and ADEM Admin Code r. 335-3-1-.04(1)
The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.	
To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:	
(1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.	ADEM Admin Code r. 335-3-1-.04
(2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).	
(3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.	
(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.	
A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.	ADEM Admin Code r. 335-3-1-.04

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All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.	
23. Payment of Emission Fees	
Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.	ADEM Admin Code r. 335-1-7-.04
24. Other Reporting and Testing Requirements	
Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.	ADEM Admin Code r. 335-3-1-.04(1)
25. Title VI Requirements (Refrigerants)	
Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F. No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F. The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.	40 CFR Part 82
26. Chemical Accidental Prevention Provisions	
If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then: (a) The owner or operator shall comply with the provisions in 40 CFR Part 68 (b) The owner or operator shall submit one of the following:	40 CFR Part 68

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(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,	
(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan	
27. Display of Permit	
This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.	ADEM Admin Code r. 335-3-14-.01(1)(d)
28. Circumvention	
No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.	ADEM Admin Code r. 335-3-1-.10
29. Visible Emissions	
Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	ADEM Admin Code r. 335-3-4-.01(1)
30. Fuel-Burning Equipment	
(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.	ADEM Admin Code r. 335-3-4-.03
(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.	ADEM Admin Code r. 335-3-5-.01
31. Process Industries – General	
Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.	ADEM Admin Code r. 335-3-4-.04

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32. <u>Averaging Time for Emission Limits</u>	
Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	ADEM Admin Code r. 335-3-1-.05
33. <u>Compliance Assurance Monitoring (CAM)</u>	
Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.	
(a) Operation of Approved Monitoring	40 CFR 64.7
(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).	
(2) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.	
(3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	

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(4) Response to excursions or exceedances. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process. (5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.	

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(b) Quality Improvement Plan (QIP) Requirements	40 CFR 64.8
(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.	
(2) Elements of a QIP:	
A. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.	
B. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:	
i. Improved preventive maintenance practices.	
ii. Process operation changes.	
iii. Appropriate improvements to control methods.	
iv. Other steps appropriate to correct control performance.	
v. More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).	

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(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.	
(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have: A. Failed to address the cause of the control device performance problems; or B. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.	
(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.	
(c) Reporting and Recordkeeping Requirements	40 CFR 64.9
(1) General reporting requirements A. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code R. 335-3-16-.05(c)3. B. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-16-.05(c)3. and the following information, as applicable:	

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(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken; (ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and (iii) A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring. (2) General recordkeeping requirements. A. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). B. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	

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(d) Savings Provisions (1) Nothing in this part shall: A. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part. B. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable. C. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.	40 CFR 64.10

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34. <u>Permit Shield</u> A permit shield exists under this operating permit in accordance with ADEM Admin. Code 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in the application are not applicable to this source.	Rule 335-3-16-.10

Summary Page for No. 1 Lime Kiln with Baghouse

Permitted
Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
001	No. 1 Lime Kiln with Baghouse	PM	$3.59(P)^{0.62}$, P < 30 TPH or $17.31(P)^{0.16}$, P ≥ 30 TPH	ADEM Admin. Code r. 335-3-4-.04
001	No. 1 Lime Kiln with Baghouse	SO_2	N/A	N/A
001	No. 1 Lime Kiln with Baghouse	NO_x	N/A	N/A
001	No. 1 Lime Kiln with Baghouse	CO	N/A	N/A
001	No. 1 Lime Kiln with Baghouse	VOC	N/A	N/A
001	No. 1 Lime Kiln with Baghouse	Opacity	20 %	ADEM Admin. Code r. 335-3-4-.01
001	No. 1 Lime Kiln with Baghouse	HCl	0.078 lb/ton of lime produced	40 CFR 63.7081(a)
001	No. 1 Lime Kiln with Baghouse (Combined with Kiln 2)	Single HAP Total HAPs	9.9 TPY 24.5 TPY	MACT Avoidance

Provisos for No. 1 Lime Kiln with Baghouse

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Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits*."	ADEM Admin. Code r. 335-3-16-.03
2. The No. 1 Lime Kiln (001) has limits in place in order to avoid the applicable provisions of 40 CFR 63, Subpart AAAAA, "*National Emission Standards for Hazardous Pollutants for Lime Manufacturing Plants.*"	40 CFR 63.7081(a)
3. This source is subject to the applicable requirements of 40 CFR Part 64 "*Compliance Assurance Monitoring.*"	40 CFR Part 64
Emission Standards	
1. ADEM Admin Code r. 335-4-.01(3-5), states no person shall discharge particulate emissions of an opacity greater than twenty (20%) percent opacity, as determined by a six (6) minute average, except that during each calendar quarter, the permittee may discharge into the atmosphere from the stack particulate with an opacity exceeding 20% for not more than 24 60-minute period of any calendar day, if such periods do not exceed 2.0% of the source calendar quarter operating hours for which opacity standard is applicable and for which the COMS is indicating valid data.	ADEM Admin. Code r. 335-3-4-.01(3-5)
2. The permittee shall not discharge into the atmosphere from the baghouse exhaust particulate emissions of an opacity greater than 22% averaged over each calendar day.	ADEM Admin. Code r. 335-3-4-.01(3-5)
3. The No. 1 Lime Kiln shall not discharge to the atmosphere particulate emissions in excess of the emissions determined by the appropriate "*Process Weight Equation*" as stated in the General Provisos.	ADEM Admin. Code r. 335-3-4-.04
4. The Permittee shall not cause to be discharged to the atmosphere HCl emissions from the No. 1 Lime Kiln in excess of 0.078 lb/ton of lime produced.	40 CFR 63.7081(a) MACT Avoidance
5. In addition, the Permittee shall not cause to be discharged to the atmosphere any one hazardous air pollutant (from both kilns) in excess of 9.9 TPY. Nor shall the Permittee cause to be discharged to the atmosphere any combination of hazardous air pollutants (from both kilns) in excess of 24.5 TPY.	40 CFR 63.7081(a) MACT Avoidance
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05

Federally Enforceable Provisos	Regulations
2. Sulfur Dioxide emissions test shall be conducted in accordance with Method 6 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
3. Nitrogen Oxide emissions test shall be conducted in accordance with Method 7 or 7E of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
4. Visible emissions observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
5. Carbon Monoxide emissions test shall be conducted in accordance with Method 10 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
6. Emissions of HCl shall be determined by an EPA-approved reference method as stated in 40 CFR 63, Subpart AAAAA.	40 CFR 63 Subpart AAAAA
Emission Monitoring	
1. Emission monitoring requirements under 40 CFR 64, "*Compliance Assurance Monitoring*" can be found in the Appendix on Page 58.	40 CFR Part 64
2. The Permittee shall conduct a particulate matter emissions test for the No. 1 Lime Kiln annually, at intervals not to exceed 12 months.	ADEM Admin. Code r. 335-3-16-.05(c)
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain records and submit reports for monitoring required by the CAM Section of this permit. These records and reports shall be maintained on site in a form suitable for inspection for a period of at least 5 years. The details of the records and reports necessary to satisfy the requirements of CAM may be found in Provisos 2 through 5 of this Recordkeeping and Reporting Section.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. A written report of excess opacity, as determined by the COMS and defined below, will be submitted to the Department for each calendar quarter within the month immediately following the end of the quarter. The quarterly report will include the following: (a) The magnitude of excess emissions over 20% computed from 6-minute averages (data recorded during period of opacity monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). (b) The date and time of commencement and completion of each time period of excess emissions. (c) The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Federally Enforceable Provisos	Regulations
(d) The date and time identifying each period during which the opacity monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. (e) When no excess emissions have occurred and the opacity monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	
3. All the original data charts, performance evaluations, calibration checks, adjustments and maintenance records and other information regarding the opacity monitoring system.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
4. Records of the causes of excess opacity (as determined by the COMS) and corrective measures utilized to alleviate said emissions.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
5. Records of baghouse inspections and any maintenance performed.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Summary Page for Lime Hydrator Plant with Baghouse

Permitted
Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
004	Lime Hydrator Plant with Baghouse	PM	3.0 lb/hr	ADEM Admin. Code r. 335-3-14-.04 BACT
004	Lime Hydrator Plant with Baghouse	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-4-.01

Provisos for Lime Hydrator Plant with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits.*"	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to applicable provisions of ADEM Admin Code r. 335-3-4-.01 (1), "*Control of Particulate Emissions – Visible Emissions*".	ADEM Admin. Code r. 335-3-4-.01(1)
3. This source has enforceable limits in place as a result of a review under the provisions of ADEM Admin. Code r. 335-3-14-.04, "*Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration).*"	ADEM Admin. Code r. 335-3-14-.04
4. This source is subject to the applicable requirements of 40 CFR Part 64 "*Compliance Assurance Monitoring.*"	40 CFR Part 64
Emission Standards	
1. This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
2. Particulate emissions from this source shall not exceed lesser of the BACT limit of 3.0 lbs/hr or the allowable set by ADEM Admin. Code r. 335-3-4-.04.	ADEM Admin. Code r. 335-3-14-.04 BACT
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
2. Visible emissions observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
Emission Monitoring	
1. The Permittee shall conduct a visual check of the baghouse stack associated with the Lime Hydrator at least once per week while the source is in operation. If the instantaneous opacity noted exceeds ten (10%) percent opacity, a visible emissions observation (VEO) shall be conducted within **thirty (30) minutes** of the initial observation in accordance with Method 9 of 40 CFR 60, Appendix A, for a minimum of twelve (12) minutes.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Federally Enforceable Provisos	Regulations
2. If the average opacity during the Method 9 Test exceeds 10% opacity, as determined by a 6-minute average, corrective action shall be initiated within 2 hours to reduce the visible emissions.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
3. If any Method 9 VEO results in a six (6) minute average greater than twenty (20%) percent opacity, the Permittee shall notify the Department within **twenty-four (24) hours**, or one (1) working day, of the VEO.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
4. A properly maintained and operated device shall be utilized to measure the pressure differential (ΔP) across the baghouse. Each device shall be located at eye level and be easily accessible for inspections by Air Division and plant personnel.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
5. Pressure drop (ΔP) across the baghouse shall be monitored and recorded daily while the unit is in operation.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
6. If the observed pressure drop (ΔP) is less than two and one-half (2.5) inches of water or greater than eleven (11) inches of water, corrective action shall be initiated within two (2) hours.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
7. The Permittee shall perform baghouse inspections/maintenance at least once per calendar quarter.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
8. Only natural gas shall be utilized in the burner. Any plans to change the type of burner fuel must receive prior approval from the Department.	ADEM Admin. Code r. 335-3-16-.05(c)
Recordkeeping and Reporting Requirements	
1. Records of all visible emissions checks, Method 9 test, pressure drop readings taken, corrective actions taken, and baghouse inspections/maintenance shall be kept on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Summary Page for No. 2 Lime Kiln with Preheater and Baghouse

Permitted
Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
005	No. 2 Lime Kiln with Preheater and Baghouse	PM	0.02 gr/acf, 25.71 lb/hr, & 0.6 lb/ton of feed	ADEM Admin. Code r. 335-3-14-.04 BACT 40 CFR 60.342(a)(2) Subpart HH
005	No. 2 Lime Kiln with Preheater and Baghouse	SO_2	42.42 lb/hr	ADEM Admin. Code r. 335-3-14-.04 BACT
005	No. 2 Lime Kiln with Preheater and Baghouse	NO_x	70.0 lb/hr & 2.8 lb/ton of lime produced	ADEM Admin. Code r. 335-3-14-.04 BACT
005	No. 2 Lime Kiln with Preheater and Baghouse	CO	50.0 lb/hr & 2.0 lb/ton of lime produced	ADEM Admin. Code r. 335-3-14-.04 BACT
005	No. 2 Lime Kiln with Preheater and Baghouse	VOC	N/A	N/A
005	No. 2 Lime Kiln with Preheater and Baghouse	Opacity	15%	40 CFR 60.342(a)(2) Subpart HH
005	No. 2 Lime Kiln with Preheater and Baghouse	HCl	0.034 lb/ton of lime produced	40 CFR 63.7081(a)
005	No. 2 Lime Kiln with Preheater and Baghouse (Combined with Kiln 1)	Single HAP Total HAPs	9.9 TPY 24.5 TPY	MACT Avoidance

Provisos for No. 2 Lime Kiln with Preheater and Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits.*"	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to the applicable requirements of Federal New Source Performance Standards (NSPS) 40 CFR 60 Subpart HH, "*Standards of Performance for Lime Manufacturing Plants.*"	40 CFR Part 60 Subpart HH §60.340(a)
3. The No. 2 Lime Kiln (005) has limits in place in order to avoid the applicable provisions of 40 CFR 63, Subpart AAAAA, "*National Emission Standards for Hazardous Pollutants for Lime Manufacturing Plants."*	40 CFR 63.7081(a)
4. This source has enforceable limits as a result of a review under the provisions of ADEM Admin. Code r. 335-3-14-.04, "*Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration).*"	ADEM Admin. Code r. 335-3-14-.04
5. This source is subject to the applicable requirements of 40 CFR Part 64 *"Compliance Assurance Monitoring."*	40 CFR Part 64
Emission Standards	
1. The particulate matter emissions from Kiln 2 (005) shall not exceed 0.6 lb/ton of stone feed.	40 CFR Part 60 Subpart HH §60.342(a)(1)
2. The particulate matter emissions from Kiln 2 (005) shall not exceed 0.02 gr/acf and 25.71 lb/hr.	ADEM Admin. Code r. 335-3-14-.04 BACT
3. The opacity from the exhaust of the baghouse associated with this source shall not exhibit greater than 15% opacity, as determined by a 6-minute average.	40 CFR Part 60 Subpart HH §60.342(a)(2)
4. The sulfur content of the fuel blend delivered to the kiln burner shall not exceed 3.03%, based on a composite sample that is collected each week. (See Emissions Monitoring #3 for the method of collecting the sample.)	ADEM Admin. Code r. 335-3-14-.04 BACT
5. The SO_2 removal efficiency, based on comparison of SO_2 emitted to conversion of all inlet fuel sulfur to SO_2, shall be 93% or greater.	ADEM Admin. Code r. 335-3-14-.04 BACT
6. The SO_2 emission rate from Kiln 2 (005) shall not exceed 42.42 lb/hr.	ADEM Admin. Code r. 335-3-14-.04 BACT

Federally Enforceable Provisos	Regulations
7. The NO_x emission rate from Kiln 2 (005) shall not exceed 2.8 lb/ton of lime produced and 70.0 lb/hr.	ADEM Admin. Code r. 335-3-14-.04 BACT
8. The CO emission rate from Kiln 2 (005) shall not exceed 2.0 lb/ton of lime produced and 50.0 lb/hr.	ADEM Admin. Code r. 335-3-14-.04 BACT
9. The Permittee shall not cause to be discharged to the atmosphere HCl emissions from the No. 2 Lime Kiln in excess of 0.034 lb/ton of lime produced.	40 CFR 63.7081(a) MACT Avoidance
10. In addition, the Permittee shall not cause to be discharged to the atmosphere any one hazardous air pollutant (from both kilns) in excess of 9.9 TPY. Nor shall the Permittee cause to be discharged to the atmosphere any combination of hazardous air pollutants (from both kilns) in excess of 24.5 TPY.	40 CFR 63.7081(a) MACT Avoidance
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
2. Sulfur Dioxide emissions test shall be conducted in accordance with Method 6 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
3. Nitrogen Oxide emissions test shall be conducted in accordance with Method 7 or 7E of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
4. Visible emissions observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
5. Carbon Monoxide emissions test shall be conducted in accordance with Method 10 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
6. Emissions of HCl shall be determined by an EPA-approved reference method as stated in 40 CFR 63, Subpart AAAAA.	40 CFR 63 Subpart AAAAA
Emission Monitoring	
1. Emission monitoring requirements under 40 CFR 64, "*Compliance Assurance Monitoring*" can be found in the Appendix on Page 58.	40 CFR Part 64
2. The Permittee shall conduct a particulate matter emissions test for the No. 2 Lime Kiln annually, at intervals not to exceed 12 months.	ADEM Admin. Code r. 335-3-16-.05(c)
3. Samples of the coal/coke blend processed in this source will be collected at least once per shift. A composite sample will be prepared by mixing together all of the samples taken in a week. Analyses of these composite samples shall be performed weekly and, in addition, shall be averaged monthly.	ADEM Admin. Code r. 335-3-14-.04 BACT

Federally Enforceable Provisos	Regulations
4. CO and NO_x emissions tests are to be conducted for this source at least once per permit term. During these emissions tests, the maximum fuel firing rate (3-hour average) and minimum O_2 level (3-hour average) shall be recorded.	ADEM Admin. Code r. 335-3-16-.05(c)
5. The Permittee shall monitor the fuel firing rate (1-hour average) and the O_2 level (1-hour average) of this source during all times of kiln operation.	ADEM Admin. Code r. 335-3-16-.05(c)
6. If the fuel firing rate exceeds 110% (based on a 1-hour average) of the fuel firing rate as measured during the most recent CO and NO_x emissions tests, which demonstrated compliance with the applicable emissions standards, the fuel feed rate shall be lowered and the source shall undergo additional CO and NO_x emissions tests at the higher fuel firing rate.	ADEM Admin. Code r. 335-3-16-.05(c)
7. If the O_2 level (1-hour average) of this source is measured at less than 75% of the lowest O_2 rate (1-hour average) as measured during the most recent CO and NO_x emissions test which demonstrated compliance with the applicable standards, the Permittee shall investigate the cause and initiate the appropriate corrective action within 2 hours.	ADEM Admin. Code r. 335-3-16-.05(c)
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain records and submit reports for monitoring required by the CAM Section of this permit. These records and reports shall be maintained on site in a form suitable for inspection for a period of at least 5 years. The details of the records and reports necessary to satisfy the requirements of CAM may be found in Provisos 2 through 5 of this Recordkeeping and Reporting Section.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. Records of all maintenance inspections and corrective actions performed for Kiln 2 and its associated baghouse (005) shall be kept in a form suitable for inspection.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
3. A written report of excess opacity, as determined by the COMS and defined below, will be submitted to the Department for each calendar quarter within the month immediately following the end of the quarter. The quarterly report will include the following: (1) The magnitude of excess emissions over 15% computed from 6-minute averages (data recorded during period of opacity monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages).	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Federally Enforceable Provisos	Regulations
(2) The date and time of commencement and completion of each time period of excess emissions. (3) The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. (4) The date and time identifying each period during which the opacity monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. (5) When no excess emissions have occurred and the opacity monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.	
4. All the original data charts, performance evaluations, calibration checks, adjustments and maintenance records and other information regarding the opacity monitoring system will be maintained in a permanent form suitable for inspection.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
5. Records of the causes of excess opacity and corrective measures utilized to alleviate said emissions, per Item 3 of the Emissions Monitoring Section above, shall be kept in a form suitable for inspection.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
6. Records of the weekly fuel sulfur content analyses and monthly averages of weekly fuel sulfur content analyses shall be maintained in a form suitable for inspection. Any weekly fuel sulfur analysis in excess of 3.03% sulfur shall be reported to the Department within 24 hours of discovery.	ADEM Admin. Code r. 335-3-14-.04 BACT
7. Records shall be maintained which document the maximum fuel firing rate (1-hour average) and the minimum O_2 level (1-hour average) for each day Kiln 2 (005) operates.	ADEM Admin. Code r. 335-3-16-.05(c)

Summary Page for Lime Crushing and Screening Station with Baghouse

Permitted
Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
006	Lime Crushing and Screening Station with Baghouse	PM	0.02 gr/scf	ADEM Admin. Code r. 335-3-14-.04 BACT
006	Lime Crushing and Screening Station with Baghouse	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-4-.01

Provisos for Lime Crushing and Screening Station with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits.*"	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to applicable provisions of ADEM Admin Code r. 335-3-4-.01 (1), "*Control of Particulate Emissions – Visible Emissions*".	ADEM Admin. Code r. 335-3-4-.01(1)
3. This source has enforceable limits as a result of a review under the provisions of ADEM Admin. Code r. 335-3-14-.04, "*Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration).*"	ADEM Admin. Code r. 335-3-14-.04
4. This source is subject to the applicable requirements of 40 CFR Part 64 *"Compliance Assurance Monitoring."*	40 CFR Part 64
Emission Standards	
1. The particulate emissions from this source shall not exceed the lesser of the BACT limit of 0.02 gr/scf or the allowable set by ADEM Admin. Code r. 335-3-4-.04.	ADEM Admin. Code r. 335-3-14-.04 BACT
2. This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
2. Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
Emission Monitoring	
1. The Permittee shall conduct a visual check of the baghouse exhaust associated with this source at least once per week for any visible emissions. If any visible emissions are noted, corrective action shall be initiated within 2 hours of the initial observation of visible emissions in order to eliminate the visible emissions.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. Baghouse preventative maintenance inspections shall be performed at least once per quarter. The preventative	ADEM Admin. Code r.

Federally Enforceable Provisos	Regulations
maintenance shall include, but may not be limited to: (a) Visual inspections of the positive side of the bags through the maintenance port for fallen bags, worn or torn bags; (b) Visual inspections for auger overload; (c) Visual inspections of baghouse doors to ensure proper seals.	335-3-16-.05(c) 40 CFR Part 64
3. A reading of the differential pressure across the baghouse shall be taken and recorded at least once per day during system operation. Should it be noted that the differential pressure across the baghouse is lower than 3 inches of water, corrective action shall be initiated within 1 hour of discovery to ensure proper operation of the baghouse.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
4. To ensure the proper operation of the magnehelic gauge, which provides the baghouse differential pressure readings, maintenance inspections shall be performed at least once per quarter. These quarterly inspections shall include (but may not be limited to) checks of the pressure taps to ensure that there is no plugging/build-up, which would adversely affect the differential pressure reading.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain records of all visual checks and corrective actions taken on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. The Permittee shall maintain records of the pressure drop readings, magnehelic gauge maintenance inspections (and maintenance performed), and any corrective actions taken. These records shall be maintained on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Summary Page for No. 2 Lime Kiln Dust Bin

Permitted
Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
007	No. 2 Lime Kiln Dust Bin	PM	0.02 gr/scf	ADEM Admin. Code r. 335-3-14-.04 BACT
007	No. 2 Lime Kiln Dust Bin	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-4-.01

Provisos for No. 2 Lime Kiln Dust Bin with Loadout and Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits.*"	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to applicable provisions of ADEM Admin Code r. 335-3-4-.01 (1), "*Control of Particulate Emissions – Visible Emissions*".	ADEM Admin. Code r. 335-3-4-.01(1)
3. This source has enforceable limits as a result of a review under the provisions of ADEM Admin. Code r. 335-3-14-.04, "*Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration).*"	ADEM Admin. Code r. 335-3-14-.04
4. This source is subject to the applicable requirements of 40 CFR Part 64 *"Compliance Assurance Monitoring."*	40 CFR Part 64
Emission Standards	
1. The particulate matter emission rate from the baghouse associated with this source shall not exceed the lesser of the BACT limit of 0.02 gr/scf or the allowable set by rule 335-3-4-.04	ADEM Admin. Code r. 335-3-14-.04 BACT
2. This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
2. Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
Emission Monitoring	
1. The Permittee shall conduct a visual check of the baghouse exhaust associated with this source at least once per week for any visible emissions. If any visible emissions are noted, corrective action to eliminate the visible emissions shall be initiated within 2 hours of the observation of the visible emissions.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. Baghouse preventative maintenance inspections shall be performed at least once per quarter. The preventative	ADEM Admin. Code r. 335-3-16-.05(c)

Federally Enforceable Provisos	Regulations
maintenance shall include, but may not be limited to: (a) Visual inspections of the positive side of the bags through the maintenance port for fallen bags, worn or torn bags; (b) Visual inspections for auger overload; (c) Visual inspections of baghouse doors to ensure proper seals.	40 CFR Part 64
3. A reading of the differential pressure across the baghouse shall be taken and recorded at least once per day during system operation. Should it be noted that the differential pressure across the baghouse is lower than 3 inches of water, corrective action shall be initiated within 1 hour of discovery to ensure proper operation of the baghouse.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
4. To ensure the proper operation of the magnehelic gauge, which provides the baghouse differential pressure readings, maintenance inspections shall be performed at least once per quarter. These quarterly inspections shall include (but may not be limited to) checks of the pressure taps to ensure that there is no plugging/build-up, which would adversely affect the differential pressure reading.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain records of all visual checks and corrective actions taken on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. The Permittee shall maintain records of the pressure drop readings, magnehelic gauge maintenance inspections (and maintenance performed), and any corrective actions taken. These records shall be maintained on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Summary Page for No. 1 Lime Kiln Dust Bin with Loadout and Baghouse

Permitted
Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
008	No. 1 Lime Kiln Dust Bin	PM	0.6 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
008	No. 1 Lime Kiln Dust Bin	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-4-.01

Provisos for No. 1 Lime Kiln Dust Bin with Loadout and Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits.*"	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to applicable provisions of ADEM Admin Code r. 335-3-4-.01 (1), "*Control of Particulate Emissions – Visible Emissions*".	ADEM Admin. Code r. 335-3-4-.01(1)
3. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, "*Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration].*"	ADEM Admin. Code r. 335-3-14-.04
4. This source is subject to the applicable requirements of 40 CFR Part 64 *"Compliance Assurance Monitoring."*	40 CFR Part 64
Emission Standards	
1. The particulate matter emission rate from the baghouse associated with this source shall not exceed the lesser of the Anti-PSD limit of 0.6 lb/hr or the allowable set by ADEM Admin. Code r. 335-3-4-.04.	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
2. This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
2. Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
Emission Monitoring	
1. The Permittee shall conduct a visual check of the baghouse exhaust associated with this source at least once per week for any visible emissions. If any visible emissions are noted, corrective action to eliminate the visible emissions shall be initiated within 2 hours of the observation of the visible emissions.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. Baghouse preventative maintenance inspections shall be performed at least once per quarter. The preventative maintenance shall include, but may not be limited to:	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Federally Enforceable Provisos	Regulations
(a) Visual inspections of the positive side of the bags through the maintenance port for fallen bags, worn or torn bags; (b) Visual inspections for auger overload; (c) Visual inspections of baghouse doors to ensure proper seals.	
3. A reading of the differential pressure across the baghouse shall be taken and recorded at least once per day during system operation. Should it be noted that the differential pressure across the baghouse is lower than 3 inches of water, corrective action shall be initiated within 1 hour of discovery to ensure proper operation of the baghouse.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
4. To ensure the proper operation of the magnehelic gauge, which provides the baghouse differential pressure readings, maintenance inspections shall be performed at least once per quarter. These quarterly inspections shall include (but may not be limited to) checks of the pressure taps to ensure that there is no plugging/build-up, which would adversely affect the differential pressure reading.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain records of all visual checks and corrective actions taken on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. The Permittee shall maintain records of the pressure drop readings, magnehelic gauge maintenance inspections (and maintenance performed), and any corrective actions taken. These records shall be maintained on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Summary Page for No. 1 & 2 Lime Systems

Permitted
Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
010	No. 1 & 2 Lime Systems	PM	6.6 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
010	No. 1 & 2 Lime Systems	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-4-.01

Provisos for No. 1 & 2 Lime Systems

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits.*"	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to applicable provisions of ADEM Admin Code r. 335-3-4-.01 (1), "*Control of Particulate Emissions – Visible Emissions*".	ADEM Admin. Code r. 335-3-4-.01(1)
3. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, "*Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]*."	ADEM Admin. Code r. 335-3-14-.04
4. This source is subject to the applicable requirements of 40 CFR Part 64 *"Compliance Assurance Monitoring."*	40 CFR Part 64
Emission Standards	
1. The particulate matter emission rate from the baghouse associated with this source shall not exceed lesser of the Anti-PSD limit of 6.6 lb/hr or the allowable set by ADEM Admin. Code r. 335-3-4-.04.	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
2. This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
2. Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
Emission Monitoring	
1. The Permittee shall conduct a visual check of the baghouse exhaust associated with this source at least once per week for visible emissions. If visible emissions greater than 15% opacity are noted, corrective action shall be initiated, if necessary, within 2 hours of the observation of the visible emissions in order to reduce the visible emissions.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. If during any visual check, visible emissions greater than 15% opacity are noted, the Permittee shall conduct an EPA Reference Method 9 test for a minimum of 12 minutes. If any Method 9 test results in visible emissions greater than 20% opacity, the Permittee shall notify the Department within 24	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Federally Enforceable Provisos	Regulations
hours of the Method 9 test.	
3. Baghouse preventative maintenance inspections shall be performed at least once per quarter. The preventative maintenance shall include, but may not be limited to: (a) Visual inspections of the positive side of the bags through the maintenance port for fallen bags, worn or torn bags; (b) Visual inspections for auger overload; (c) Visual inspections of baghouse doors to ensure proper seals.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
4. A reading of the differential pressure across the baghouse shall be taken and recorded at least once per day during system operation. Should it be noted that the differential pressure across the baghouse is lower than 3 inches of water, corrective action shall be initiated within 1 hour of discovery to ensure proper operation of the baghouse.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
5. To ensure the proper operation of the magnehelic gauge, which provides the baghouse differential pressure readings, maintenance inspections shall be performed at least once per quarter. These quarterly inspections shall include (but may not be limited to) checks of the pressure taps to ensure that there is no plugging/build-up, which would adversely affect the differential pressure reading.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain records of all visual checks, Method 9 tests, and corrective actions taken on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. The Permittee shall maintain records of the pressure drop readings, magnehelic gauge maintenance inspections (and maintenance performed), and any corrective actions taken. These records shall be maintained on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Summary Page for Hydrated Lime Pulverizer System with Baghouse

Permitted
Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
013	Hydrated Lime Pulverizer System with Baghouse	PM	$E=3.59(P)^{0.62}$ for P <30 tph or $E=17.31(P)^{0.16}$ for P>30 tph	ADEM Admin. Code r. 335-3-4-.04
013	Hydrated Lime Pulverizer System with Baghouse	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-4-.01

Provisos for Lime Pulverizer System with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits.*"	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to applicable provisions of ADEM Admin Code r. 335-3-4-.01 (1), "*Control of Particulate Emissions – Visible Emissions*".	ADEM Admin. Code r. 335-3-4-.01(1)
3. This source is subject to applicable provisions of ADEM Admin Code r. 335-3-4-.04, "*Control of Particulate Emissions – Process Industries, General*".	ADEM Admin. Code r. 335-3-4-.04
4. This source is subject to the applicable requirements of 40 CFR Part 64 *"Compliance Assurance Monitoring."*	40 CFR Part 64
Emission Standards	
1. This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
2. Particualte matter emissions from this source shall not exceed the allowable set by rule 335-3-4-.04.	ADEM Admin. Code r. 335-3-4-.04
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
2. Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
Emission Monitoring	
1. The Permittee shall conduct a visual check of the baghouse exhaust associated with this source at least once per week for visible emissions. If visible emissions greater than 15% opacity are noted, corrective action shall be initiated, if necessary, within 2 hours of the observation of the visible emissions in order to reduce the visible emissions.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. If during any visual check, visible emissions greater than 15% opacity are noted, the Permittee shall conduct an EPA Reference Method 9 test for a minimum of 12 minutes. If any Method 9 test results in visible emissions greater than 20% opacity, the Permittee shall notify the Department within 24 hours of the Method 9 test.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
3. A reading of the differential pressure across the baghouse shall be taken and recorded at least once per day during system	ADEM Admin. Code r.

Federally Enforceable Provisos	Regulations
operation. Should it be noted that the differential pressure across the baghouse is less than two and one-half (2.5) inches of water or greater than eleven (11) inches of water, corrective action shall be initiated within two (2) hours of discovery to ensure proper operation of the baghouse.	335-3-16-.05(c) 40 CFR Part 64
4. To ensure the proper operation of the magnehelic gauge, which provides the baghouse differential pressure readings, maintenance inspections shall be performed at least once per quarter. These quarterly inspections shall include (but may not be limited to) checks of the pressure taps to ensure that there is no plugging/build-up, which would adversely affect the differential pressure reading.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
Recordkeeping and Reporting Requirements	
1. The Permittee shall maintain records of all visual checks, Method 9 tests, and corrective actions taken on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. The Permittee shall maintain records of the pressure drop readings, magnehelic gauge maintenance inspections (and maintenance performed), and any corrective actions taken. These records shall be maintained on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Summary Page for Grinding Reject Transfer, Storage, and Load-out System with Baghouse

Permitted
Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
014	Grinding Reject Transfer, Storage, and Load-out System	PM	0.03 gr/scf	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
014	Grinding Reject Transfer, Storage, and Load-out System	Opacity	20% (See General Provisos)	ADEM Admin. Code r. 335-3-4-.01

Provisos for Grinding Reject Transfer, Storage, and Load-out System with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits.*"	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to ADEM Admin. Code r. 335-3-4-.04 (1), "*Control of Particulate Emissions for Process industries – General*".	ADEM Admin. Code r. 335-3-4-.04(1)
3. This source is subject to applicable provisions of ADEM Admin Code r. 335-3-4-.01 (1), "*Control of Particulate Emissions – Visible Emissions*".	ADEM Admin. Code r. 335-3-4-.01(1)
4. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, "*Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration].*"	ADEM Admin. Code r. 335-3-14-.04
5. This source is subject to the applicable requirements of 40 CFR Part 64 *"Compliance Assurance Monitoring."*	40 CFR Part 64
Emission Standards	
1. The particulate matter emission rate from the baghouse associated with this source shall not exceed lesser of the Anti-PSD limit of 0.03 gr/scf or the allowable set by ADEM Admin. Code r. 335-3-4-.04.	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
2. This source shall not discharge to the atmosphere more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this source discharge a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
2. Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
Emission Monitoring	
1. The Permittee shall conduct an instantaneous visual emissions observation of the baghouse exhaust at least once per week during daylight hours while the source is in operation.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. If any observed instantaneous visible emissions exceed ten (10%) percent opacity, a twelve (12) minute visible emissions	ADEM Admin. Code r.

Federally Enforceable Provisos	Regulations
observation (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within one (1) hour of the initial observation, unless the source is immediately shut down.	335-3-16-.05(c) 40 CFR Part 64
3. If the average opacity observed during any Method 9 observation exceeds fifteen (15%) percent, as determined by any six (6) minute average, corrective action shall be initiated within two (2) hours of the Method 9 observation in order to reduce visible emissions.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
4. After correction action has been completed, a follow-up twelve (12) minute emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, in order to ensure that visible emissions in excess ten (10%) percent opacity are no longer present.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
5. A reading of the differential pressure across the baghouse shall be taken and recorded at least once per day during system operation. Should it be noted that the differential pressure across the baghouse is less than two and one-half (2.5) inches of water or greater than eleven (11) inches of water, corrective action shall be initiated within two (2) hours of discovery to ensure proper operation of the baghouse.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
6. To ensure the proper operation of the magnehelic gauge, which provides the baghouse differential pressure readings, maintenance inspections shall be performed at least once per quarter. These quarterly inspections shall include (but may not be limited to) checks of the pressure taps to ensure that there is no plugging/build-up, which would adversely affect the differential pressure reading.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
Recordkeeping Requirements	
1. The Permittee shall maintain records documenting the date, time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64

Federally Enforceable Provisos	Regulations
3. The Permittee shall maintain records of the pressure drop readings, magnehelic gauge maintenance inspections (and maintenance performed), and any corrective actions taken. These records shall be maintained on site in a form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
3. Records will be maintained of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the process equipment and any malfunction of the air pollution control equipment. These records will be kept in a permanent form suitable for inspection and will be retained for at least 2 years following the date of each occurrence	ADEM Admin. Code r. 335-3-16-.05(c) 40 CFR Part 64
Reporting Requirements	
1. A semi-annual monitoring report shall be submitted to the Department according the following schedule:	ADEM Admin. Code r. 335-3-16-.05(c)(3)
2. The Permittee shall submit a semi-annual report which includes the following information: (a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated; (b) Copy of every visual emissions observation utilizing Method 9 report generated during the reporting period; (c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required; (d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and (e) Signature of the responsible official as required by General Permit Proviso No. 9.	ADEM Admin. Code r. 335-3-16-.05(c)(3)

Reporting Period	Due Date
August 30th through February 28th	May 1st
March 1st through August 29th	October 29th

Summary Page for Emergency Engines

Permitted
Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
K1 K2	53 Hp Diesel Emergency Engine (K1) 53 Hp Diesel Emergency Engine (K2)	PM	N/A	N/A
K1 K2	53 Hp Diesel Emergency Engine (K1) 53 Hp Diesel Emergency Engine (K2)	SO_2	N/A	N/A
K1 K2	53 Hp Diesel Emergency Engine (K1) 53 Hp Diesel Emergency Engine (K2)	NO_X	N/A	N/A
K1 K2	53 Hp Diesel Emergency Engine (K1) 53 Hp Diesel Emergency Engine (K2)	CO	N/A	N/A
K1 K2	53 Hp Diesel Emergency Engine (K1) 53 Hp Diesel Emergency Engine (K2)	VOC	N/A	N/A
K1 K2	53 Hp Diesel Emergency Engine (K1) 53 Hp Diesel Emergency Engine (K2)	Opacity	See General Provisos	Rule 335-3-4-.01(1)
O1	36 kW Propane Emergency Engine (O1)	PM	N/A	N/A
O1	36 kW Propane Emergency Engine (O1)	SO_2	N/A	N/A
O1	36 kW Propane Emergency Engine (O1)	NO_X	See Table 1 of 40 CFR §90.103	40 CFR Part 60 Subpart JJJJ
O1	36 kW Propane Emergency Engine (O1)	CO	See Table 1 of 40 CFR §90.103	40 CFR Part 60 Subpart JJJJ
O1	36 kW Propane Emergency Engine (O1)	VOC	See Table 1 of 40 CFR §90.103	40 CFR Part 60 Subpart JJJJ
O1	36 kW Propane Emergency Engine (O1)	Opacity	See General Provisos	Rule 335-3-4-.01(1)

Provisos for Emergency Engines

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of 40 CFR Part 63 Subpart ZZZZ, "National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE)".	40 CFR Part 63 Subpart ZZZZ
3. These sources are subject to the applicable requirements of Subpart A of 40 CFR Part 63, "General Provisions" as listed in Table 8 of Subpart ZZZZ.	40 CFR Part 63 Subpart ZZZZ
4. Emergency Engine O1 is subject to the applicable requirements of 40 CFR Part 60 Subpart JJJJ, "Standards of Performance for Stationary Spark Ignition Internal Combustion Engines".	40 CFR Part 60 Subpart JJJJ
5. Emergency Engine O1 must meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements contained in 40 CFR 60 Subpart JJJJ, for spark ignition engines.	40 CFR §63.6590(c)(1)
Emission Standards	
1. These units are subject to the applicable requirements listed in Table 2d of 40 CFR 63 Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.	40 CFR §63.6603
2. The Permittee must operate and maintain these units according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	40 CFR §63.6625(e)(3)
3. The Permittee must install a non-resettable hour meter for each unit if one is not already installed.	40 CFR §63.6625(f)
4. These units may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of these units are limited to 100 hours per year. There	40 CFR §63.6640(f)(1-4)

Federally Enforceable Provisos	Regulations
is no time limit on the use of these units in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year . These units may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in 40 CFR 63 Subpart ZZZZ, is prohibited.	
5. Unit O1 must be certified to the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, and other requirements for new nonroad SI engines in 40 CFR part 90.	40 CFR §60.4231(c)
6. The facility must operate and maintain Unit O1 according to the manufacturer's written instructions.	40 CFR §60.4243(a)
7. The Permittee must install a non-resettable hour meter prior to startup of Unit O1 if it doesn not meet the standards applicable to non-emergency engines.	40 CFR §60.4237(c)
8. Unit O1 may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of these units are limited to 100 hours per year. There is no time limit on the use of these units in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year . Unit O1 may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-	40 CFR §60.4243(d)

Federally Enforceable Provisos	Regulations
emergency power as part of a financial arrangement with another entity. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in 40 CFR 60 Subpart JJJJ, is prohibited.	
Compliance and Performance Test Methods and Procedures	
1. Method 9 of 40 CFR (Latest Edition) Part 60, Appendix A shall be used in the determination of the opacity.	Rule 335-3-1-.05
Emission Monitoring	
1. The Permittee shall perform the following activities: (a) Change oil and filter every 500 hours of operation or annually, whichever comes first; (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. Or utilize an oil analysis program as described in §63.6625(i) or §63.6625(j).	40 CFR Part 63 Subpart ZZZZ Table 2d(4) & §63.6625(i) & (j)
2. If an oil analysis program is utilized for a stationary compression ignition engine, the Permittee must perform the oil analysis at the same frequency specified above for changing the oil. The Permittee must at a minimum analyze the following parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new, viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new, or percent water content (by volume) is greater than 0.5. If any of the limits are exceed, the Permittee must change the oil within 2 business days of receiving the results of the analysis or before commencing operation, whichever is later.	40 CFR Subpart ZZZZ §63.6625(i)

Federally Enforceable Provisos	Regulations
3. If an oil analysis program is utilized for a stationary spark ignition engine, the Permittee must perform the oil analysis at the same frequency specified above for changing the oil. The Permittee must at a minimum analyze the following parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligram of potassium hydroxide (KOH) per gram from the Total Acid Number of the oil when new, viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new, or percent water content (by volume) is greater than 0.5. If any of the limits are exceed, the Permittee must change the oil within 2 business days of receiving the results of the analysis or before commencing operation, whichever is later.	40 CFR Subpart ZZZZ §63.6625(j)
Recordkeeping and Reporting Requirements	
1. The Permittee must keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.	40 CFR Subpart ZZZZ §63.6625(i) & (j)
2. The Permittee must keep records of the maintenance conducted on these units in order to demonstrate that you operated and maintained these units and after-treatment control device (if any) according to your own maintenance plan.	40 CFR §63.6655(e)
3. The Permittee must keep records of the hours of operation of each engine that is recorded through the non-resettable hour meter. The facility must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.	40 CFR §63.6655(f)
4. The Permittee shall maintain files of all information (including all reports and notifications) required by 40 CFR Part 60 Subpart JJJJ for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The following records shall be kept: (a) All notifications submitted to comply with Subpart JJJJ and all documentations supporting any notification. (b) Maintenance conducted on each unit. (c) Documentation from the manufacturer that each engine is	40 CFR §60.4245(a)

Federally Enforceable Provisos	Regulations
certified to meet the emission standards. (d) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.	

APPENDIX

Compliance Assurance Monitoring Requirements (CAM)

Compliance Assurance Monitoring Plan for Emission Unit 001 (No. 1 Lime Kiln)

	Indicator 1	Indicator 2	Indicator 3
I. Indicator	Opacity (Measured with a Continuous Opacity Monitor)	Baghouse and bag conditions are observed through maintenance inspections performed once per quarter. **	Particulate Matter Emissions Tests (Measured in accordance with EPA Reference Method 5)
II. Indicator Range	Opacity should be 20% or less. Inspection of baghouse is prompted if outside this range for more than 5 consecutive 6-minute periods. An excursion exists if opacity (as indicated by the COMS) exceeds more than one 6-minute average of 20% in 1 hour and/or any 6-minute average of 40% opacity. *	Range is exceeded if failure to perform inspections or take action following report of necessary maintenance.	$E = 3.59(P)^{0.62}$ $P < 30$ TPH $E = 17.31(P)^{0.16}$ $P \geq 30$ TPH An excursion exists if a Method 5 test results in emissions greater than that allowed by the appropriate Process Weight Equation as stated above.
III. Performance Criteria A. Data Representativeness	The COM is located at the baghouse outlet. The system has a minimum accuracy of 2% over the range of the monitor.	Not Applicable	The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.
B. Verification of Operation Status	Not Applicable	Not Applicable	Not Applicable
C. QA/QC Practices & Criteria	Calibrate and maintain in accordance with manufacturer's specification and 40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specification I requirements.	Personnel will be trained properly to perform inspections and maintenance and recognize excursions and initiate corrective action.	The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.

	Indicator 1	Indicator 2	Indicator 3
D. Monitoring Frequency			
Data Collection Procedures	Continuously recorded on strip charts or electronically	At least once per quarter	The Method 5 test shall be performed at least once per year. Consecutive tests shall not be conducted less than 6 months or more than 18 months apart. The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.
Averaging Period	6-minute averages	Not Applicable	3-hour average

***** Should the net opacity exceedances exceed 5%, as determined by the COMS, during any calendar quarter, the Department may require additional particulate matter emissions testing to be conducted prior to the end of the next calendar quarter.

****** Quarterly Control Device Inspections Include (But May Not Be Limited To):

- Visual inspection of the positive side of the bags through the maintenance port for fallen bags
- Worn or torn bags
- Auger overload
- Inspection of baghouse doors to ensure properly sealed doors

Compliance Assurance Monitoring Plan for Emission Unit 005 (No. 2 Lime Kiln)

	Indicator 1	Indicator 2	Indicator 3
I. Indicator	Opacity (Measured with a Continuous Opacity Monitor)	Baghouse and bag conditions are observed through maintenance inspections performed once per quarter. **	Particulate Matter Emissions Tests (Measured in accordance with EPA Reference Method 5)
II. Indicator Range	Opacity should be 15% or less. Inspection of baghouse is prompted if outside this range for more than 5 consecutive 6-minute periods. An excursion exists if opacity (as indicated by the COMS) exceeds more than one 6-minute average of 15%. *	Range is exceeded if failure to perform inspections or take action following report of necessary maintenance.	0.6 lb/ton of feed 0.02 gr/acf 25.71 lb/hr An excursion exists if a Method 5 test results in emissions greater than any of the limits listed above.
III. Performance Criteria A. Data Representativeness	The COM is located at the baghouse outlet. The system has a minimum accuracy of 2% over the range of the monitor.	Not Applicable	The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.
B. Verification of Operation Status	Not Applicable	Not Applicable	Not Applicable
C. QA/QC Practices & Criteria	Calibrate and maintain in accordance with manufacturer's specification and 40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specification I requirements.	Personnel will be trained properly to perform inspections and maintenance. Operators will be trained properly to recognize excursions and initiate corrective action.	The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.

	Indicator 1	Indicator 2	Indicator 3
D. Monitoring Frequency			
Data Collection Procedures	Continuously recorded on strip charts or electronically	At least once per quarter	The Method 5 test shall be performed at least once per year. Consecutive tests shall not be conducted less than 6 months or more than 18 months apart. The Method 5 is performed as prescribed in Appendix A of 40 CFR Part 60.
Averaging Period	6-minute averages	Not Applicable	3-hour average

***** Should the net opacity exceedances exceed 5%, as determined by the COMS, during any calendar quarter, the Department may require additional particulate matter emissions testing to be conducted prior to the end of the next calendar quarter.

****** Quarterly Control Device Inspections Include (But May Not Be Limited To):

- Visual inspection of the positive side of the bags through the maintenance port for fallen bags
- Worn or torn bags
- Auger overload
- Inspection of baghouse doors to ensure properly sealed doors

Compliance Assurance Monitoring Plan for Emission Units 006, 007, 008, and 010

	Indicator 1	Indicator 2	Indicator 3
I. Indicator Approach	Pressure drop across the baghouse is measured with a Magnahelic differential pressure gauge.	Weekly visible inspections with Method 9-like procedures.	Bag conditions are observed through maintenance inspections performed once per calendar quarter.
II. Indicator Range	Readings should be maintained at or above 3 in. of H_2O. Inspection of baghouse prompted if readings are observed outside this range.	If a visible emission is observed, maintenance inspection or corrective action will be initiated within 2 hours of observed visible emissions.	Range exceeded if failure to perform inspection or take action following report of necessary maintenance.
III. Performance Criteria A. Data Representativeness	Pressure taps are located at the baghouse inlet and outlet. The gauge has a minimum accuracy of 0.3 inches of H_2O.	Measurements are being made at the emissions point (baghouse exhaust).	Not Applicable
B. Verification of Operation Status	Not Applicable	Not Applicable	Not Applicable
C. QA/QC Practices & Criteria	Pressure taps are located the baghouse inlet and outlet. The pressure taps are checked for pluggage/build-up once per quarter during maintenance inspections.	Trained personnel to perform observations.	Trained personnel to perform inspections and maintenance.
D. Monitoring Frequency Data Collection Procedures Averaging Period	Readings are taken and recorded once per day. Not Applicable	Weekly recording of observations. Not Applicable	Once per calendar quarter. Not Applicable

Compliance Assurance Monitoring Plan for Emission Units 004, 013, and 014

	Indicator 1	Indicator 2	Indicator 3
I. Indicator Approach	Pressure drop across the baghouse is measured with a Magnahelic differential pressure gauge.	Weekly visible inspections with Method 9-like procedures.	Bag conditions are observed through maintenance inspections performed once per calendar quarter.
II. Indicator Range	Readings should be maintained within the range of 2.5 – 11 in. of H_2O. Inspection of baghouse prompted if readings are observed outside this range.	If a visible emission is observed, maintenance inspection or corrective action will be initiated within 2 hours of observed visible emissions.	Range exceeded if failure to perform inspection or take action following report of necessary maintenance.
III. Performance Criteria A. Data Representativeness	Pressure taps are located at the baghouse inlet and outlet. The gauge has a minimum accuracy of 0.3 inches of H_2O.	Measurements are being made at the emissions point (baghouse exhaust).	Not Applicable
B. Verification of Operation Status	Not Applicable	Not Applicable	Not Applicable
C. QA/QC Practices & Criteria	Pressure taps are located the baghouse inlet and outlet. The pressure taps are checked for pluggage/build-up once per quarter during maintenance inspections.	Trained personnel to perform observations.	Trained personnel to perform inspections and maintenance.
D. Monitoring Frequency Data Collection Procedures Averaging Period	Readings are taken and recorded once per day. Not Applicable	Weekly recording of observations. Not Applicable	Once per calendar quarter. Not Applicable